E.P.

Name _____

Date _____

Absolute Deviation Worksheet

1. Use the data to answer the questions below.
   Age of singers: 4, 18, 5, 13, 22, 51, 35, 62, 33

Mean:

Median:

Mean Absolute Deviation:

Absolute Deviation from Median:

2. Use the data to answer the questions below.
   Size of shoe: 8, 7, 8.5, 6.5, 5, 11, 15, 8, 8, 7, 7.5, 6.5, 8, 14, 12

Mean:

Median:

Mean Absolute Deviation:

Absolute Deviation from Median:

3. Use the data to answer the questions below.
   Boys GPA: 3.0, 2.2, 2.5, 3.1, 4.0, 3.8, 2.7, 3.6, 3.9
   Girls GPA: 2.5, 1.9, 4.0, 3.8, 3.7, 2.5, 4.0, 3.6, 2.8

DO NOT SORT THE SAMPLE YET!!

- Which gender do you predict has the highest average GPA for the samples? Explain why you made this prediction.

- Which gender do you predict has the highest median GPA for the samples? Explain why you made this prediction.

NOW SORT THE DATA!!

Boys GPA: 3.0, 2.2, 2.5, 3.1, 4.0, 3.8, 2.7, 3.6, 3.9

Girls GPA: 2.5, 1.9, 4.0, 3.8, 3.7, 2.5, 4.0, 3.6, 2.8

- Now compute the mean.

- Were you wrong or right?

- Compute the median.

- Were you wrong or right?

- Find the mean absolute deviation.

- Find the absolute deviation from the median.

- How do the two absolute deviations compare?

4. Use the data below for the calculations.

Average hours sleeping per weeknight: 4, 5, 8, 12, 10, 6, 7, 9, 8, 8, 6, 6, 4, 3, 9

Mean:

Median:

Mean Absolute Deviation:

Absolute Deviation from Median:

5. Use the data below for the calculations.

Average hours spent reading per day: 2, 0.5, 0.25, 1, 1.5, 2.5, 5, 3, 1, 0, 2, 0, 0, 0, 1

Mean:

Median:

Mean Absolute Deviation:

Absolute Deviation from Median: